

C;Species: Hirudo medicinalis (medicinal leech)
 C;Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 17-Jul-1998
 C;Accession: S05674
 R;Schart, M.; Engels, J.; Tripler, D.
 FBS Lett. 255, 105-110, 1989
 A;Title: Primary structures of new 'iso-hirudins'.
 A;Reference number: S05671; MUID:90005945
 A;Accession: S05674
 A;Molecule type: protein
 A;Residues: 1-65 <SCH>
 A;Superfamily: thrombin inhibitor
 C;Keywords: anti-coagulant; serine proteinase inhibitor; sulfoprotein
 F;6-14;16-28;22-39/bisulfide bonds: #status predicted
 F;6-14;16-28;22-39/bisulfide bonds: #status predicted
 F;63/Binding site: sulfate (Tyr) (covalent) #status predicted
 F;63/Binding site: sulfate (Tyr) (covalent) #status predicted
 Query Match 95.9%; Score 353; DB 2; Length 65;
 Best Local Similarity 93.8%; Pred. No. 4e-29; Mismatches 0; Indels 0; Gaps 0;
 Matches 61; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 LTYTDCTESGONICLCEGSNVCGQGNKCIILGSDGERKNQCVTGEGETPKPQSHNDGDFEIP 60
 Db 1 IYTDTCTESGONICLCEGSNVCGNGNCKLGSDGERKNQCVTGEGETPKPQSHNDGDFEIP 60
 Qy 61 EBYLQ 65
 Db 61 EBYLQ 65
 RESULT 3
 S7821
 hirudin III - medicinal leech
 N;Alternate names: thrombin inhibitor
 C;Species: Hirudo medicinalis (medicinal leech)
 C;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 17-Jul-1998
 C;Accession: S78521
 R;Schart, M.; Engels, J.; Tripler, D.
 FBS Lett. 255, 105-110, 1989
 A;Title: Primary structures of new 'iso-hirudins'.
 A;Reference number: S05671; MUID:90005945
 A;Accession: S78521
 A;Molecule type: protein
 A;Residues: 1-65 <SCH>
 C;Superfamily: thrombin inhibitor
 C;Keywords: anti-coagulant; serine proteinase inhibitor; sulfoprotein
 F;63/Binding site: sulfate (Tyr) (covalent) #status predicted
 Query Match 95.1%; Score 350; DB 2; Length 65;
 Best Local Similarity 93.8%; Pred. No. 8.1e-29; Mismatches 2; Indels 0; Gaps 0;
 Matches 61; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
 Qy 61 EBYLQ 65
 Db 61 EBYLQ 65
 RESULT 5
 S05676
 hirudin III - medicinal leech
 N;Alternate names: thrombin inhibitor
 C;Species: Hirudo medicinalis (medicinal leech)
 C;Date: 21-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 17-Jul-1998
 C;Accession: S05676
 R;Schart, M.; Engels, J.; Tripler, D.
 FBS Lett. 255, 105-110, 1989
 A;Title: Primary structures of new 'iso-hirudins'.
 A;Reference number: S05671; MUID:90005945
 A;Accession: S05676
 A;Molecule type: protein
 A;Residues: 1-65 <SCH>
 C;Superfamily: thrombin inhibitor
 C;Keywords: anti-coagulant; serine proteinase inhibitor; sulfoprotein
 F;6-14;16-28;22-39/bisulfide bonds: #status predicted
 F;6-14;16-28;22-39/bisulfide bonds: #status predicted
 F;63/Binding site: sulfate (Tyr) (covalent) #status predicted
 Query Match 94.6%; Score 348; DB 2; Length 65;
 Best Local Similarity 93.8%; Pred. No. 1.3e-28; Mismatches 2; Indels 0; Gaps 0;
 Matches 61; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 LTYTDCTESGONICLCEGSNVCGQGNKCIILGSDGERKNQCVTGEGETPKPQSHNDGDFEIP 60
 Db 1 VVYTDCTESGONICLCEGSNVCGQGNKCIILGSDGERKNQCVTGEGETPKPQSHNDGDFEIP 60
 Qy 61 EBYLQ 65
 Db 61 EBYLQ 65
 RESULT 6
 S05678
 hirudin II - medicinal leech
 N;Alternate names: thrombin inhibitor
 C;Species: Hirudo medicinalis (medicinal leech)
 C;Accession: S05678
 C;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 17-Jul-1998
 C;Accession: S05678
 R;Schart, M.; Engels, J.; Tripler, D.
 FBS Lett. 255, 105-110, 1989
 A;Title: Primary structures of new 'iso-hirudins'.
 A;Reference number: S05671; MUID:90005945
 A;Accession: S05678
 A;Molecule type: protein
 A;Residues: 1-65 <SCH>
 C;Superfamily: thrombin inhibitor
 C;Keywords: anti-coagulant; serine proteinase inhibitor; sulfoprotein
 F;6-14;16-28;22-39/bisulfide bonds: #status predicted

F;63/Binding site: sulfate (Tyr) (covalent) #status predicted

Query Match 94.6%; Score 348; DB 2; Length 65;
Best Local Similarity 92.3%; Pred. No. 1.3e-28; 0; Mismatches 5; Indels 0; Gaps 0;

Matches 60; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Db 1 LTYDCTESQNLCLCEGSNVCGQGNKCIIGSDGKKNQCVTGEGTPKPOSHNDGFEEIP 60

Qy 1 LTYDCTESQNLCLCEGSNVCGQGNKCIIGSDGKKNQCVTGEGTPKPOSHNDGFEEIP 60

Db 1 ITYDCTESQNLCLCEGSNVCGKGNKCIIGSNGEENQCVTGEGTPKPOSHNDGFEEIP 60

Qy 61 BEYLQ 65

Db 61 BEYLQ 65

RESULT 7

S78220 hirudin IIIa - medicinal leech
N;Alternate names: thrombin inhibitor
C;Species: Hirudo medicinalis (medicinal leech)
C;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 17-Jul-1998
C;Accession: S78220
R;Scharf, M.; Engels, J.; Tripiet, D.
FEBS Lett. 255, 105-110, 1989
A;Title: Primary structures of new 'iso-hirudins'.
A;Reference number: S05671; MUID:90005945
A;Accession: S78220
A;Molecule type: protein
A;Residues: 1-65 <SCH>
C;Superfamily: thrombin inhibitor
C;Keywords: anticoagulant; serine proteinase inhibitor; sulfoprotein
F;63/Binding site: sulfate (Tyr) (covalent) #status predicted

Query Match 94.0%; Score 346; DB 2; Length 65;
Best Local Similarity 90.8%; Pred. No. 2.1e-28; 1; Mismatches 5; Indels 0; Gaps 0;

Matches 59; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTYDCTESQNLCLCEGSNVCGQGNKCIIGSDGKKNQCVTGEGTPKPOSHNDGFEEIP 60

Db 1 WYTYDCTESQNLCLCEGSNVCGQGNKCIIGSDGKKNQCVTGEGTPKPOSHNDGFEEIP 60

Qy 61 EBYLQ 65

Db 61 EBYLQ 65

RESULT 8

S05679 hirudin II' - medicinal leech
N;Alternate names: thrombin inhibitor
C;Species: Hirudo medicinalis (medicinal leech)
C;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 17-Jul-1998
C;Accession: S05679
R;Scharf, M.; Engels, J.; Tripiet, D.
FEBS Lett. 255, 105-110, 1989
A;Title: Primary structures of new 'iso-hirudins'.
A;Reference number: S05671; MUID:90005945
A;Accession: S05679
A;Molecule type: protein
A;Residues: 1-65 <SCH>
C;Superfamily: thrombin inhibitor
C;Keywords: anticoagulant; serine proteinase inhibitor; sulfoprotein
F;63/Binding site: sulfate (Tyr) (covalent) #status predicted

Query Match 93.2%; Score 343; DB 2; Length 65;
Best Local Similarity 90.8%; Pred. No. 4.1e-28; 0; Mismatches 6; Indels 0; Gaps 0;

Matches 59; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTYDCTESQNLCLCEGSNVCGQGNKCIIGSDGKKNQCVTGEGTPKPOSHNDGFEEIP 60

Db 1 ITYDCTESQNLCLCEGSNVCGKGNKCIIGSNGEENQCVTGEGTPKPOSHNDGFEEIP 60

Qy 61 BEYLQ 65

Db 61 BEYLQ 65

RESULT 11
A37417 thrombin inhibitor (hirudin) type II precursor - medicinal leech (fragment)
C;Species: Hirudo medicinalis (medicinal leech)
C;Accession: A37417
R;Harvey, R.P.; Degryse, E.; Stefanini, L.; Schamber, F.; Cazenave, J.P.; Courtney, M.; To
Proc. Natl. Acad. Sci. U.S.A. 83, 1084-1088, 1986
A;Title: Cloning and expression of a cDNA coding for the anticoagulant hirudin from the
A;Reference number: A37417; MID:86149219
A;Accession: A37417
A;Molecule type: mRNA
A;Status: preliminary; not compared with conceptual translation
A;Residues: 1-72 <HAR>
A;Cross-references: GB: M12693; NID:9159224; PIDN:AAA29195.1; PID:9159225
C;Superfamily: thrombin inhibitor

Query Match Similarity 90.5%; Score 333; DB 2; Length 72;
Best Local Similarity 87.7%; Pred. No. 4.7e-27;
Matches 57; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LTYTDCTESGONLCLCEGSNYVCQGKNCIIGSDGEQNQCVTGEGPKPQSHNDGFEEIP 60
Db 8 ITYTDCTESGONLCLCEGSNYVCQGKNCIILGSNQVCGKGKNCIILGSNQCVTGEGPKPQSHNDGFEEIP 67

Qy 61 BEYLQ 65
Db 68 BEYLQ 72

RESULT 12
A24350 thrombin inhibitor (hirudin PA) - medicinal leech
N;Alternate names: hirudin (plasminogen activator-type)
C;Species: Hirudo medicinalis (medicinal leech)
C;Accession: A24350
C;Date: 31-Mar-1988 #sequence_revision 31-Mar-1988 #text_change 18-Jun-1993
R;Dodd, J.; Macleod, W.; Seemueller, U.; Maschler, R.; Fritz, H.
Biol. Chem. Hoppe-Seyler 367, 803-811, 1986
A;Title: Isolation and characterization of hirudin isoInhibitors and sequence analysis
A;Reference number: A24350; MID:87026247
A;Accession: A24350
A;Molecule type: protein
A;Residues: 1-66 <DOD>
C;Superfamily: thrombin inhibitor

Query Match Similarity 85.6%; Score 315; DB 2; Length 66;
Best Local Similarity 87.1%; Pred. No. 2.9e-25;
Matches 54; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 LTYTDCTESGONLCLCEGSNYVCQGKNCIIGSDGEQNQCVTGEGPKPQSHNDGFEEIP 60
Db 1 ITYTDCTESGONLCLCEGSNYVCQGKNCIILGSNQCVTGEGPKPQSHNDGFEEIP 60

Qy 61 BEYLQ 62
Db 61 BEYLQ 62

RESULT 13
S05672 hirudin I - medicinal leech (fragments)
N;Alternate names: hirudin inhibitor
C;Species: Hirudo medicinalis (medicinal leech)
C;Accession: S05672
C;Date: 21-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 17-Jul-1998
C;Accession: S05672
R;Scharf, M.; Engels, J.; Trippier, D.
FEBs Lett. 25, 105-110, 1989
A;Title: Primary structures of new 'iso-hirudins'.

Query Match Similarity 85.6%; Score 315; DB 2; Length 66;
Best Local Similarity 87.1%; Pred. No. 2.9e-25;
Matches 54; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 LTYTDCTESGONLCLCEGSNYVCQGKNCIIGSDGEQNQCVTGEGPKPQSHNDGFEEIP 60
Db 1 ITYTDCTESGONLCLCEGSNYVCQGKNCIILGSNQCVTGEGPKPQSHNDGFEEIP 60

Qy 61 BEYLQ 62
Db 61 BEYLQ 62

RESULT 14
A53883 hirudin Hv1 homolog bufrudin - leech (Hirudinaria manillensis)
C;Species: Hirudinaria manillensis
C;Date: 27-Sep-1994 #sequence_revision 18-Nov-1994 #text_change 09-Mar-1996
C;Accession: A53883
R;Electricwala, A.; Hartwell, R.; Scawen, M.D.; Atkinson, T.
J. Protein Chem. 12, 365-370, 1993
A;Title: The complete amino acid sequence of a hirudin variant from the leech Hirudin
A;Status: preliminary
A;Accession: A53883
A;Molecule type: protein
A;Residues: 1-63 <EDB>
A;Experimental source: head portions
A;Note: sequence extracted from NCBI backbone (NCBIP:139162)
C;Superfamily: thrombin inhibitor

Query Match Similarity 67.7%; Score 249; DB 2; Length 63;
Best Local Similarity 67.7%; Pred. No. 1.3e-18;
Matches 44; Conservative 8; Mismatches 11; Indels 2; Gaps 1;

Qy 1 LTYTDCTESGONLCLCEGSNYVCQGKNCIIGSDGEQNQCVTGEGPKPQSHNDGFEEIP 60
Db 1 VSYTDTCTESGONLCLCEGSNYVCQGKNCIILGSNQCVTGEGPKPQSHNDGFEEIP 58

Qy 61 BEYLQ 65
Db 59 DEXIK 63

RESULT 15
S33329 hirudin HM2 - leech (Hirudinaria manillensis)
C;Species: Hirudinaria manillensis
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 16-Jul-1999
C;Accession: S33329
R;Scacheri, E.; Nitti, G.; Vaisasina, B.; Orsini, G.; Visco, C.; Ferrera, M.; Sawyer,
Eur. J. Biochem. 214, 295-304, 1993
A;Title: Novel hirudin variants from the leech Hirudinaria manillensis. Amino acid se
A;Reference number: S33328; MID:93285156
A;Accession: S33329
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-84 <SR>
A;Cross-references: EMBL:X72786; NID:9312674; PIDN:CAA51293.1; PID:9312675
C;Genetics:
A;Introns: 21/1; 37/3; 61/1
C;Superfamily: thrombin inhibitor

Search completed: June 24, 2002, 20:51:16
Job time: 160 sec

